

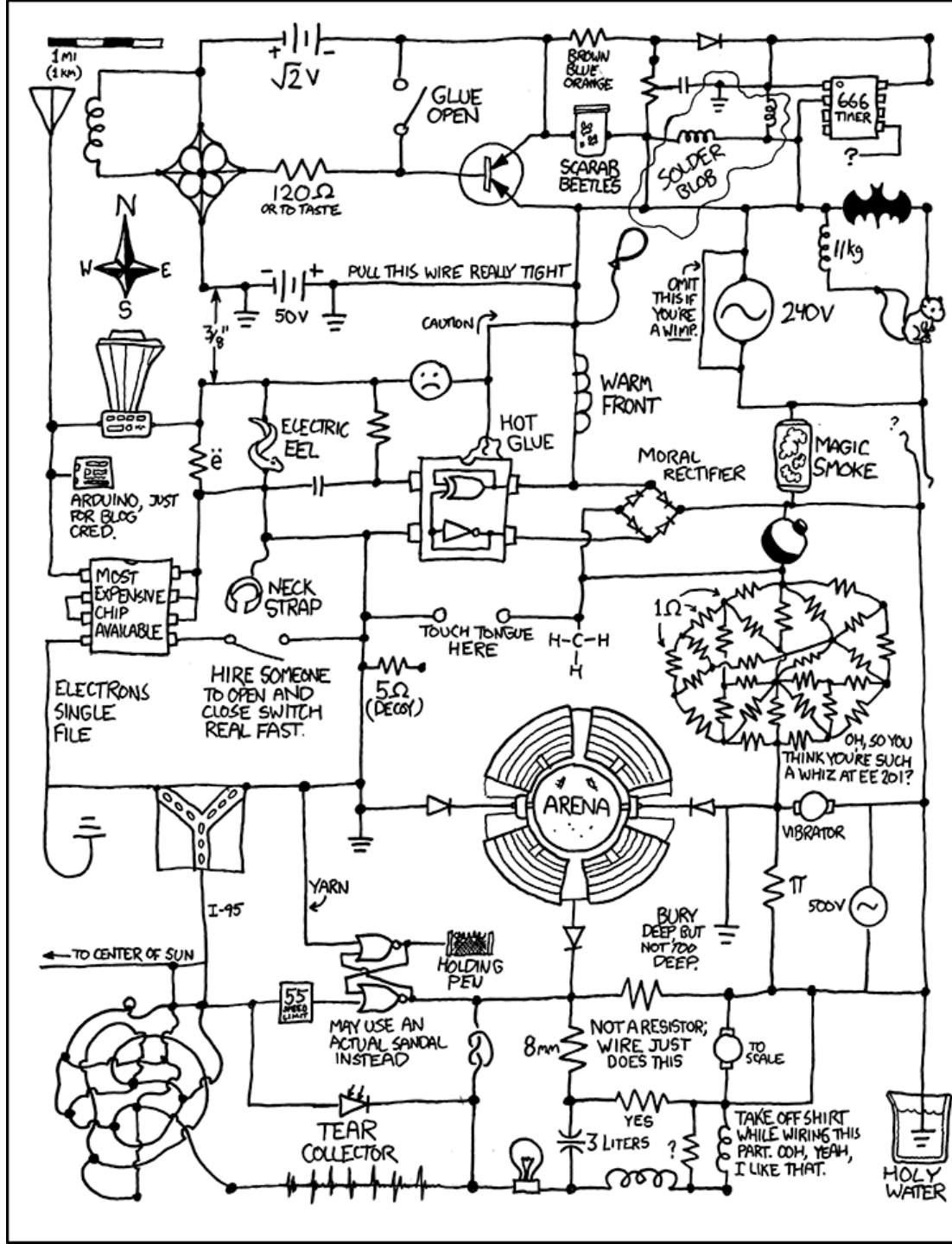
# JMRI Basics

How to install JMRI and program Locos

# Disclaimers

- This clinic has Windows examples.
  - JMRI work on Macs and Linux but I have no examples. Check [JMRI.org](http://JMRI.org).
- I am using my equipment. Your screens may look different based on the hardware you use.
- You must be able to read/write to a decoder using your hardware system. JMRI does not magically fix hardware issues.
- This clinic does not describe Panel Pro and Operations in detail. A future clinic will detail these.

# Installing JMRI



# Parts of JMRI

- Java Model Railroad Interface (JMRI) uses Java.
- JMRI is a related set of tools.
  - Decoder Pro – Programming Decoders
  - Panel Pro – Automating Layout
  - Operations – Switch lists, equipment database, etc.
  - Custom scripts – Jython scripts to do custom actions.

# Where to get the software?

- JMRI.org has a downloads page.

## JMRI 4.6 - Production release



If you've never installed a version of this program before, please read the installation guide (on the left) for your computer type and I needed before the program will run.

Installation guides: [Windows](#), [Mac OS X](#), [Linux](#)

See also the page of [layout connections](#).

If you've previously installed a working version of the program, you only need to download and install one of the files listed here.

Download:

- Mac OS X: <https://sourceforge.net/projects/jmri/files/production%20files/JMRI.4.6-R81496dc.dmg/download>  
sha256: 778086e641ef8d9c85d5f57f68fccccd60d721520dc3fc6eb54ed197f48f4b016
- Windows: <https://sourceforge.net/projects/jmri/files/production%20files/JMRI.4.6-R81496dc.exe/download>  
sha256: af9847a7dc9e62ec44a70fbae1cdea2c291ad8e31422c8f3c648186862c54442
- Linux: <https://sourceforge.net/projects/jmri/files/production%20files/JMRI.4.6-R81496dc.tgz/download>  
sha256: 81c642347dc1bf8c4abf93c19385845e637ce801be68ab6aaf1d5fd9a5eded37

### Notes:

For more information on the release contents, please see the [release note](#).

We recommend that you verify the downloaded files using the provided sha256 key.

If you're looking to download Rodney Black's [CATS](#) application, see the [CATS download page](#).

# Install Software

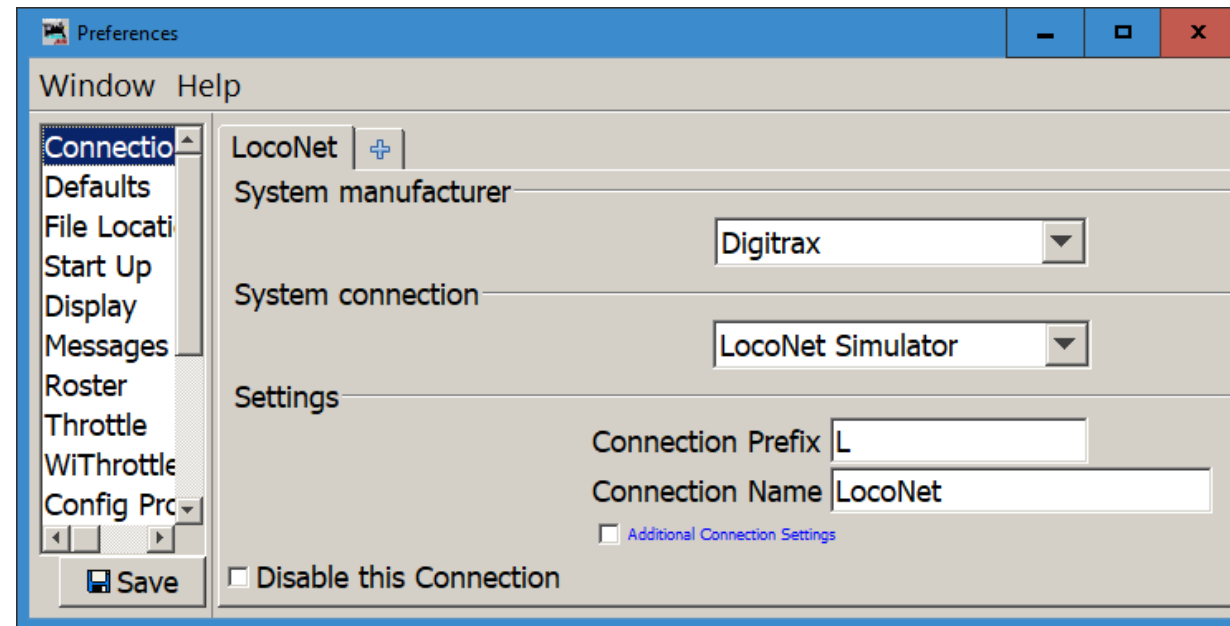
- To install JMRI you need Java and JMRI install programs.
- For windows, These are the files:
  - JMRI.4.6-R81496dc.exe – The current JMRI install file
  - jre-8u51-windows-i586.exe – 32 bit Java install
  - jre-8u51-windows-x64.exe – 64 bit Java Install
- You will install Java first. Usually the 32 bit version.
- Then you install JMRI.

# Configuration

- When you first open JMRI, you are prompted to configure your JMRI copy to match your hardware.

If you have no hardware, you can use a simulator.

This is the Digitrax simulator setup.



# JMRI in real time

- We now tempt fate by opening JMRI real time.